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1 [Digital libraries and cyberinfrastructure track: creating information representations for the hu](#) [Finding a catalog: generating analytical catalog records from well-structured digital texts](#)

David Mimno, Alison Jones, Gregory Crane

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries****Publisher:** ACM PressFull text available:  [pdf\(210.23 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the criticisms library users often make of catalogs is that they rarely include information at the bibliographic level. It is generally impossible to search a catalog for the titles and subjects of particular volumes. There has been no way to add this information to catalog records without exponentially increasing the workload of catalogers. At the same time, well-structured full-text XML transcriptions of printed books are becoming increasingly available. This paper describes ...

Keywords: analytical cataloging, information extraction, library automation**2** [Establishing the semantic web 11: On deep annotation](#) Siegfried Handschuh, Steffen Staab, Raphael VolzMay 2003 **Proceedings of the 12th international conference on World Wide Web****Publisher:** ACM PressFull text available:  [pdf\(389.51 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

The success of the Semantic Web crucially depends on the easy creation, integration and use of annotations for this purpose, we consider an integration scenario that defies core assumptions of current metadata methods. We describe a framework of metadata creation when web pages are generated from a database owner who is cooperatively participating in the Semantic Web. This leads us to the definition of mapping rules by manual semantic annotation and the usage ...

Keywords: annotation, information integration, mapping and merging, metadata, semantic web**3** [Contributed articles: Resource description framework: metadata and its applications](#) K. Selçuk Candan, Huan Liu, Reshma SuvarnaJuly 2001 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(1.02 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Universality, the property of the Web that makes it the largest data and information source in the world, is also the main reason behind the lack of a uniform organization scheme that would allow easy access to data

semantic web, wherein different applications and Web sites can exchange information and hence information to their full potential, requires the information about Web resources to be represented in a detailed and structured manner. Resource Descrip ...

Keywords: Resource Description Framework (RDF), Web, XML, metadata, semantic web

4 Document authoring, markup and manipulation 2: Enhancing composite digital documents standoff markup

 Peter L. Thomas, David F. Brailsford
November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng**

Publisher: ACM Press

Full text available:  pdf(695.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document representations can rapidly become unwieldy if they try to encapsulate all possible document representations ranging from abstract structure to detailed rendering and layout. We present a composite document representation wherein an XML-based document representation is linked via a 'shadow tree' of bi-directional pointers to a plain text representation of the same document. Using a two-window viewer any material selected in the plain text window will bring back to the corresponding material in the XML, and vice versa ...

Keywords: MathML, MusicXML, PDF, XBL, XML, composite documents, standoff markup

5 FieldWise: a mobile knowledge management architecture

 Henrik Fagrell, Kerstin Forsberg, Johan Sanneblad
December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work CSCW**

Publisher: ACM Press

Full text available:  pdf(470.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

The paper presents results of a research project that has aimed at developing a knowledge management architecture for mobile work domains. The architecture developed, called FieldWise, was based on requirements elicited from organisations and feedback from users of prototype systems. This paper describes the empirical requirements of FieldWise, how these have been realised in the architecture, and how the architecture can be implemented in the news journalism domain. FieldWise adds to the ...

Keywords: hand-held devices, knowledge management, mobile CSCW, organisational memory

6 XML processing: Parsing concurrent XML

 Ionut E. Iacob, Alex Dekhtyar
November 2004 **Proceedings of the 6th annual ACM international workshop on Web information management**

Publisher: ACM Press

Full text available:  pdf(242.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Concurrent markup hierarchies appear often in document-centric XML documents, as a result of elements having overlapping scopes. They require significantly different approach to management and maintenance. Management of XML documents composed of concurrent markup has been mostly studied by the XML document processing community and has attracted attention of computer scientists only recently. In this paper we discuss the architecture of an XML parser for concurrent XML. This parser uses a ...

Keywords: DOM, GODDAG, concurrent XML, overlapping markup

7 A composable framework for secure multi-modal access to internet services from Post-PC

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(340.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telemedia. Existing deployed Internet services are geared toward the secure rich interface of private desktops. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between Post-PC devices and the requirements of Internet services ...

Keywords: internet, middleware, post-PC, security, transcoding

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